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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,936 11/14/2003		Sang Seok Lee	8733.940.00-US	9893
	590 11/22/2004	EXAMINER		
MCKENNA I 1900 K STREE	LONG & ALDRIDGE T NW	KOCH, GEORGE R		
WASHINGTO		ART UNIT	PAPER NUMBER	
			1734	

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

MLV

		Applicat	ion No	T	14/4-			
Office Action Summary				Applicant(s)				
		10/712,9		LEE ET AL.				
		Examine		Art Unit				
The MAII	INC DATE of this communicati		R. Koch III	1734				
Period for Reply	ING DATE of this communicat	tion appears on th	e cover sheet with the c	orrespondence addi	ess			
THE MAILING D  - Extensions of time m after SIX (6) MONTH  - If the period for reply - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD FOR ATE OF THIS COMMUNICA ay be available under the provisions of 3's from the mailing date of this communic specified above is less than thirty (30) da is specified above, the maximum statuto the set or extended period for reply will, the Office later than three months after the djustment. See 37 CFR 1.704(b).	ATION.  7 CFR 1.136(a). In no e cation.  ays, a reply within the state or properiod will apply and by statute cause the an	vent, however, may a reply be tim tutory minimum of thirty (30) days vill expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this coming (35.11) coming (35.11).	munication.			
Status								
1) Responsive	e to communication(s) filed o	on						
2a)☐ This action		☐ This action is i	non-final.					
3)☐ Since this a	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	ccordance with the practice ι							
Disposition of Clain	ns							
4)⊠ Claim(s) <i>1-</i>	118 is/are pending in the app	nlication						
	bove claim(s) is/are w		nsideration					
	is/are allowed.	, , , , , , , , , , , , , , , , , , ,	noideration.					
	is/are rejected.							
7) Claim(s)	is/are objected to.							
8)⊠ Claim(s) <u>1-</u>	118 are subject to restriction	and/or election re	equirement.					
Application Papers								
	ation is objected to by the Ex	xaminer						
	g(s) filed on is/are: a)[		Objected to by the F	yaminer				
	ay not request that any objection							
Replacemen	t drawing sheet(s) including the	correction is requir	ed if the drawing(s) is obje	ected to. See 37 CFR	1 121 <i>(</i> d)			
11)∐ The oath or	declaration is objected to by	the Examiner. No	ote the attached Office	Action or form PTO-	152.			
Priority under 35 U.S								
	ment is made of a claim for fo	foreign priority up	dor 25 11 5 C 5 440(a)	(d) (f)				
	Some * c) None of:	oreign priority uni	der 35 U.S.C. § 119(a)-	(a) or (t).				
<u> </u>	ied copies of the priority docu	uments have bee	n received					
	ied copies of the priority docu			n No				
	es of the certified copies of th				age			
applic	cation from the International E	Bureau (PCT Rul	e 17.2(a)).		.30			
* See the attac	hed detailed Office action for	r a list of the certi	ied copies not received	•				
Attachment(s)								
Notice of References     Notice of Draftspersor	cited (PTO-892) on's Patent Drawing Review (PTO-94	(40)	4) Interview Summary (F	°TO-413)				
B) 🔲 Information Disclosu	re Statement(s) (PTO-1449 or PTO/		Paper No(s)/Mail Date 5) Notice of Informal Pate		2)			
Paper No(s)/Mail Dat	e	-	6) Other:	,				

## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-83, 86-106, 108-117, drawn to a substrate bonding apparatus, classified in class 156, subclass 351.
  - II. Claims 84-85, 107, and 118 drawn to a method of bonding, classified in class 156, subclass 64.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process (rather than manufacturing LCD devices). It can be used to bond optical disks (CD's and DVD's). It can also be used to precisely laminate layers of a paper/plastic sign (for use in sign-making).
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 5. This application contains claims directed to the following groups of patentably distinct species of the claimed invention:
- 6. Group I: The sensing means includes
  - A load cell provided in each first actuator.
  - b. A load cell provided in an upper surface of the lower chamber unit.
  - c. A gap sensor for measuring a gap.
- 7. Group II: The moving part includes
  - d. A linear actuator.
  - e. A step motor.
  - f. A linear motor.
- 8. Group III: wherein
  - g. The driving part comprises an actuator, and the pipeline is an axis of the actuator.
  - h. The driving part comprises a step motor; and the pipeline is an axis of the step motor.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits *from each group* to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-6, 10-33, 37-44, 47-69, 73-80, 83-90, 94-103, 106-115 and 118 are generic to the groups.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

9. A telephone call was made to Eric Nuss on 11/10/2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Koch III whose telephone number is (571) 272-1230 (TDD only). If the applicant cannot make a direct TDD-to-TDD call, the applicant can communicate by calling the Federal Relay Service at 1-866-377-8642 and giving the operator the above TDD number. The examiner can normally be reached on M-Th 10-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George R. Koch III Patent Examiner Art Unit 1734

GRK 11/11/2004